

Title (en)

Two-speed valve in-star motor.

Title (de)

Ventil für Sternmotor mit zwei Geschwindigkeiten.

Title (fr)

Soupape à deux vitesses pour moteur en étoile.

Publication

EP 0276680 A2 19880803 (EN)

Application

EP 88100323 A 19880112

Priority

US 788287 A 19870128

Abstract (en)

A rotary fluid pressure device is disclosed of the type including a gerotor gear set including a ring member (19) and a star member (23). Both manifold valving and commutator valving are accomplished at an interface between an end surface (42) of the star (23) and an end surface (41) of an endcap member (17). The endcap (17) defines three concentric pressure chambers (43), (51) and (47), and the star defines three concentric manifold zones (63), (67), and (65) which are in continuous communication with the pressure chambers (43), (51) and (47), respectively. The various manifold zones (63), (67), and (65) defined by the star communicate with fluid ports (69), (77) and (73), respectively which are also defined by the end surface (42) of the star (23). A valve spool (97) is selectively operable between a first condition providing communication between the manifold zones (63) and (67) to achieve a low-speed, high-torque (LSHT) mode of operation, and a second condition providing communication between the manifold zones (67) and (65) to achieve a high-speed, low-torque (HSLT) mode of operation.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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